

1. A method of eliciting an immune response to a tumor cell, comprising the step of administering to a subject a pharmaceutical composition comprising:

(A) a herpes simplex virus, wherein said vector comprises a tumor cell-specific promoter wherein said promoter controls expression of at least one viral protein necessary for viral replication and wherein said promoter is induced selectively or at a higher level in tumor cells than in normal cells; and

(B) a pharmaceutically acceptable vehicle for said virus.

2. A method according to claim 1, wherein said virus is targeted to a tumor cell of non-nervous tissue origin.

3. A method according to claim 1, wherein said virus is targeted to a neural tumor cell.

4. A method according to claim 1, wherein said promoter is nestin promoter.

5. A method according to claim 1, wherein said promoter is basic fibroblast growth factor promoter.

6. A method according to claim 1, wherein said promoter is epidermal growth factor promoter.